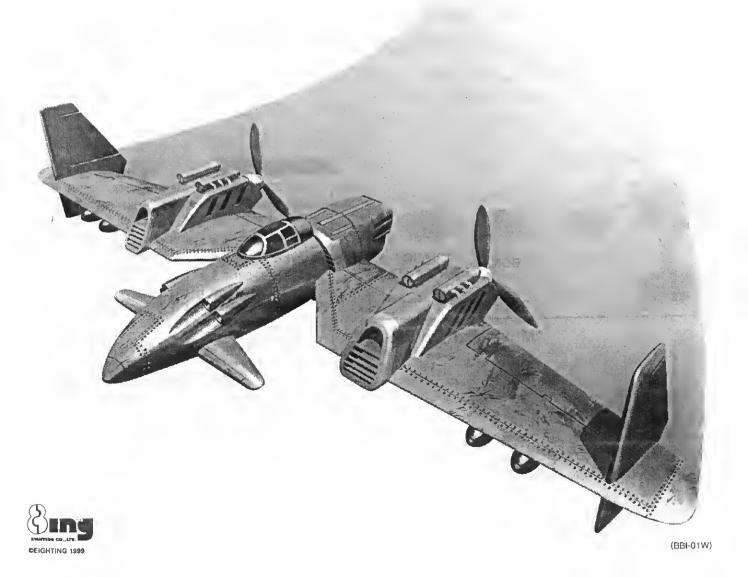


(OPERATOR'S MANUAL)



[Important Safety Instructions]

- Turn off power before installation and removal of the circuit board.
- Turn off power before changing the setting of any DIP switch.
- Use board edge connectors that conform to the JAMMA standard.
- Do not touch the heat sink or components when you hold the board since the heat sink and some components are very hot.
- Set the board so that the heat sink is always well ventilated.
- Avoid strong physical shock on the board and do not get it wet.
- · Do not disassemble or rebuild the board.

[Contents]

Manual

(BBI-01W)

1 copy

Instruction card

(BBI-02W)

1 copy

· Circuit board

1 board

[Settings]

- Edge connector on circuit board JAMMA Standard
- Monitor Direction

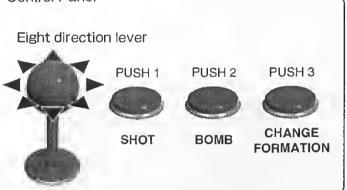
VERTICAL SCREEN

Supply voltages to the board

+5V(2A or greater) +12V(1A or greater)

(Maintain each voltage within ±5% range.)

· Control Panel -



*Maximum credits-9.

168

[Pin Assignment]

JAMMA Standard

SOLDER SIDE			PARTS SIDE				
GND	Α	1	GND				
GND	В	2	GND				
+5V	С	3	+5V				
+5V	D	4	+5V				
N.C.	Е	5	N.C.				
+12V	F	6	+12V				
	Н	7					
COIN COUNTER 2	J	8	COIN COUNTER 1				
(COIN LOCK OUT 2)	к	9	(COIN LOCK OUT 1)				
SP(-)	Ĺ	10	SP(+)				
N.C.	М	11	N.C.				
VIDEO GREEN	N	12	VIDEO RED				
VIDEO SYNC	Р	13	VIDEO BLUE				
SERVICE SW	R	14	VIDEO GND				
N.C.	S	15	一般格代				
COIN SW 2	Т	15	COIN SW 1				
START SW 2	U	17 -	START SW 1				
2P UP	V	18	1P UP				
2P DOWN	W	19	1P DOWN				
2P LEFT	Х	20	1P LEFT				
2P RIGHT	Y	21	1P RIGHT				
2P PUSH 1	Z	22	1P PUSH 1				
2P PUSH 2	а	23	1P PUSH 2				
2P PUSH 3 b 24 1P PUSH 3							
N.C.	С	25	N.C.				
N.C.	d	26	N.C.				
GND	е	27	GND .				
GND	f	28	GND				

[Test Mode]

To enter test mode, set DIP switch 1-1 on the board ON, and then turn on power.

Caution: Turn off power before changing the setting of any DIP switch.

Select a test item by moving the 1P lever to the appropriate vertical position and press the 1P PUSH1. The screen for the selected test item appears.

BATTLE BAKRAID > GAME MODE OIP SWITCH SETTING TEXT TEST OBJECT TEST CHARACTER TEST MAP TEST SOUND TEST EEPROM INITIALIZE

<Test Menu>

1.GAME MODE

Brings you to the game screen for checking.

2.DIP SWITCH SETTING

Allows you to perform input tests, DIP switch setting tests, and monitoring screen checking.

3.TEXT TEST

Allows you to check text to be used during the game.

4.OBJECT TEST

Allows you to check the objects to be used during the game,

5.CHARACTER TEST

Allows you to check the characters to be used during the game.

6.MAP TEST

Allows you to check the maps to be used during the game.

7.SOUND TEST

Allows you to check the sound to be used during the game.

8.EEPROM INITIALIZE

Clears the contents of the SAVE data.

Caution: Selecting this mode clears the backed-up SAVE data and returns to the initial state.

[DIP Switch Settings]

Allows you to perform input tests, DIP switch setting tests, and monitoring screen checking. Selecting this mode on the TEST MENU screen initiates the ROM RAM CHECK. On the screen after the ROM RAM CHECK, pressing the 1P and 2P start buttons simultaneously brings you to the IO CHECK screen.

OTIEOT SOLGETI:						
	OIP SWITCH SETT	ING				
01P SWI 1 OFF 2 OFF 3 OFF 5 OFF 6 OFF 6 OFF	TEST MODE STARTING COIN COIN 1 1 COIN COIN 2					
01P SWI 1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 7 OFF 7 B	START RANK TIMER RANK					
OIP SWI 1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 7 OFF	SCREEN FLIP	OFF ON OISABLE ENABLE OFF SAVE				
PRESS 1P & 2P START TO CHANGE TEST ITEMS						

2.DIP SWITCH SETTING screen

1.IO CHECK screen

Lets you test switches, buttons, and the lever of the machine.

If the screen changes from OFF to ON after you press a switch, a button, and the lever, the machine is verified as normal.

Pressing the 1P and 2P start buttons simultaneously brings you to the DIP SWITCH SETTING screen.

2.DIP SWITCH SETTING screen

Lets you check the settings of the DIP switches on the board, such as the type of coin and the degree of difficulty.

(See the table of DIP switch settings for each setting.)

Caution: Turn off power before changing the setting of any OIP switch.

Check the settings only on the DIP SWITCH SETTING screen.

Pressing the 1P and 2P start buttons simultaneously brings you to the COLOR CHECK screen.

3.COLOR CHECK screen

Allows you to check color shades and brightness of the screen using each color bar. Adjust the machine screen using the above check results as guidelines.

Pressing the 1P and 2P start buttons simultaneously brings you to the SCREEN CHECK screen.

4.SCREEN CHECK screen

Allows you to check the size and distortion of the screen using the cross-hatched screen. Adjust the machine screen using the above check results as guidelines.

Pressing the 1P and 2P start buttons simultaneously initiates return to the MENU screen.

If you want to return to a normal game screen after checking the test mode, turn off power before turn DIP switch 1-1 on the board OFF, and then turn on power again.

DIP SWITCH] [BATTLE BAKRAID

DIP SWITCH1		1	2	3	4	5	6	7	8	
TEST MODE	NORMAL PLAY	OFF	_							
	TEST PATTERN	ON					ļ			
STARTING COIN	1 CREDIT		OFF							
	2 CREDITS		ON	1						
	1 COIN 1 CREDIT			OFF_	OFF	OFF				
	1 COIN 2 CREDITS			ON	OFF	OFF				
•	1 COIN 3 CREDITS			OFF	ON	OFF				
COIN 1	1 COIN 4 CREDITS			ON	ON	OFF	1			
COIN 1	2 COINS 1 CREDIT			OFF	OFF	ON				
	3 COINS 1 CREDIT			ON	OFF	ON				
		Ì		OFF	ON	ON				
	4 COINS 1 CREDIT	-		I OFF	ON	ON	OFF	OFF	OFI	
	1 COIN I CREDIT	. 1					-	+	_	
	1 COIN 2 CREDITS						ON	OFF	OF	
	1 COIN 3 CREDITS	- 6					OFF	ON	OFI	
COIN 2	1 COIN 4 CREDITS						ON	ON	OF	
	2 COINS 1 CREDIT						OFF	OFF	ON	
	3 COINS 1 CREDIT						ON	OFF	ON	
	4 COINS 1 CREDIT						OFF	ON	ON	
FREE PLAY				ON	ON	ON	ON	ON	ION	
DEFAULT SETTING		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OF.	
							-	-	_	
DIP SWITCH2		1	2	3	4	5	6	7	. 8	
START RANK	NORMAL	OFF	OFF							
(Game start difficulty setting)	EASY	ON	OFF	_						
	HARD	OFF	ON							
	VERY HARD	ON	ON				_	1		
	If the customer is not playing the change the game start difficulty	e game due	to it's	difficulty	setting	, it is us ttina.	seful to			
THAT BANK	NORMAL		-	OFF	OFF					
TIMER RANK				ON	OFF					
(How the difficulty rate	·									
increases during the game)	HIGH			OFF	ON	0.				
	HIGHEST			ON	ON					
	If the playing time per customer increase rate to a higher rate ar	If the playing time per customer is to long, it is useful to change the difficulty increase rate to a higher rate and if the playing time is to short to lower the rate.								
PLAYER COUNTS	3					OFF	OFF			
	4					ON	OFF			
	2					OFF	ON			
	1					ON	ON			
EXTRA PLAYER	2,000,000 EACH	-						OFF	OF	
EXTRAFEATER	3,000,000 EACH							ON	OF	
		1						OFF	10	
	4,000,000 EACH							ON	ON	
	NO EXTRA	OFF	OFF	LOFF	OFF	OFF	OFF	OFF	OF	
DEFAULT SETTING		OFF	OFF	OFF	OFF				8	
DIP SWITCH 3		1 055	2	3	4	5	6	7	0	
SCREEN FLIP	OFF	OFF	-							
	ON	ON						-		
DEMO SOUND	ON		OFF							
	NO SOUND		ON							
STAGE EDIT	DISABLE			OFF						
	ENABLE			ON						
CONTINUE PLAY	ENABLE				OFF			-		
	DISABLE				ON					
INVINCIBLE	OFF					OFF				
	ON					ON				
SCORE RANKING	SAVE						OFF	1		
							ON			
	NO SAVE						UN	OFF	OF	
NO USE™		-	OF F	OFF	OFF	OFF	OFF	OFF	OF	
DEFAULT SETTING		OFF								